



City of Wheatland


313 Main Street – Wheatland, California 95692
Tel (530) 633-2761 – Fax (530) 633-9102

CITY COUNCIL MEETING STAFF REPORT

Date: January 26, 2010
Agenda Item:

**Subject: EECBG Small Cities Energy Efficiency & Conservation
Block Grant Program**

Prepared by: Larry L. Panteloglow Sr.

Approved: 
Stephen L. Wright,
City Manager

Recommendation: Council adopt the attached Resolution to accept Grant Funding from State Energy Commission in the amount of \$25,000.

Discussion: One of the components of the Federal Stimulus funding includes energy efficiency grants to small cities in the amount of \$25,000. These funds are being channeled through the California Energy Commission. City staff has evaluated various potentials for the use of these funds and has developed the attached list of proposed projects in various City facilities. Most of these projects are simple changing out of light bulbs, fixtures, LED exit signs, dual technology (motion sensitive) light switches, etc. These improvements are proposed to be made in the Community Center, Corporation Yard, Police Station, Fire Department and Park restrooms. All cost calculations include costs for installation by others.

Upon completion of these upgrades, energy savings to the City are projected to be approximately \$2,430.18 annually.

Alternatives: The Council could identify other projects or chose not to accept the grant funds.

Fiscal Impact: There is no grant match required for this project.

Attachments:

1. Scope of Work
2. Costs break down sheet materials and labor.
3. Costs saving break down sheet + or - .
4. Draft resolution

CITY OF WHEATLAND

Public Works Department

Phone: 530-633-8192

Fax: 530-633-8249



January 12, 2010

California Energy Commission
Grants and Loans Office
Attn: EECBG Small City/County Grant Program
1516 Ninth Street, MS-1
Sacramento, CA 95814

RE: Scope of Work - EECBG Small City Energy Efficiency and Conservation Block Grant Program

The scope of work for the EECBG Small City Energy Efficiency and Conservation Block Grant Program affecting various City buildings consists of:

1. Replacement of over 100 bulbs from T-12, 32 watts bulb to T-8, 28 watts bulb. The existing capacity is 128 KW with a proposed capacity of 112 KW with an estimated 12% annually saving.
2. Replacement of 30 existing 4 tube T- 12, 32 watt surface fixtures and ballast to new surface fixtures and ballast with T-8, 28 watt bulbs. . The existing capacity is 160 KW with a proposed capacity of 112 KW with an estimated 30% annually saving.
3. Installation of 48 wall mounted dual technology occupancy sensors. . The existing capacity is 150 KW with a proposed capacity of 113 KW with an estimated 25% annually saving.
4. Replacement of 52 incandescent bulbs and 6 flood lamps to LED bulbs. The existing capacity is 0.06 KW with a proposed capacity of .004 KW with an estimated 80% annually saving.
5. Replace of 9 incandescent lighted "Exit" signs to LED bulbs. The existing capacity is 0.015 KW with a proposed capacity of .003 KW with an estimated 80% annually saving.
6. Replacement of 8 parking lot lights from 200 watt to LED. The existing capacity is 0.20 KW with a proposed capacity of .020 KW with an estimated 90% annually saving.

Larry Panteloglou Sr.
Public Works Director
City Of Wheatland

ATTACHMENT A

APPLICATION COVER PAGE

1. **Applicant Name:** CITY OF WHEATLAND
2. **Type of Application:** *(Select one or both as appropriate)*
☒ Direct Equipment Purchase ☐ Energy Efficiency Project
☐ Municipal Financing Program
3. **Applicant Category:**
☒ Individual City ☐ Collaborative (attach list of city/county name(s) included in application):
☐ Individual County
4. **Total Grant Funds Requested:** \$ 25,000.00
5. **Budget Includes Prevailing Wage:** *(refer to Exhibits 3, 4, and 5)* ☒ Yes ☐ No
6. **Proposed Start Date:** *(no earlier than November 2009)* 04 / 12 / 2010
7. **Proposed End Date:** *(maximum September 13, 2012)* 04 / 30 / 2011
8. **Principal Contact/Project Manager:** *(serves as single point of contact for all communications)*
 Name: STEPHEN WRIGHT
 Phone: (530) 633-2761 Fax: (530) 633-9102
 Email: swright@wheatland.ca.gov
 Organization: CITY OF WHEATLAND
 Position/Title: CITY MANAGER
- Address: 111 C STREET
 P.O. BOX 395
 WHEATLAND, CA 95692

9. **Authorized Representative Certification:** *To the best of my knowledge, I certify that:*

- *The information contained in this grant application package is true and provides all information requested in the solicitation document.*
- *The proposed projects are cost-effective energy efficiency opportunities available to the eligible city/county.*
- *Proposed project(s) are not for prohibited activities as specified within solicitation document.*
- *Grant funds will be used to supplement (rather than supplant) funds already committed or expected to be received in support of the funded project.*
- *Applicant is in compliance with Single Audit Act requirements.*

 Authorized Representative Signature

 Date

Reserved for California Energy Commission Use		
Solicitation	Date Received	Proposal Number Assigned
PON-09-001		

ATTACHMENT B

DIRECT EQUIPMENT PURCHASE SUPPORTING DOCUMENTATION

Existing Equipment	Proposed Equipment	Facility Where Equipment Installed	Existing Capacity (kW, HP, BTUs, etc.)	Proposed Capacity (kW, HP, BTUs, etc.)	Estimated Load Reduction (%) (if applicable)	Number of Hours of Operation	Number of Units	Equipment/ Material Cost per Unit	Total Equipment/ Material Cost	Total Non-Equipment Cost	Total Project Costs	Installation Cost Percentage *
1 Switches	13 Dual Technology switches	Community Center					13	\$ 84.90	\$ 1,103.70	455.00	\$ 1,558.70	\$ 0.29
2 4t recessed t8/32	94 bulbs 28watt	Community Center	.128 KW	.112KW	12%	12,480	24	\$ 2.00	\$ 48.00	188.00	\$ 238.00	\$ 0.80
3 exit signs	7 Ledexit signs	Community Center	.015 KW	0.003 KW	80%	43,880	7	\$ 93.94	\$ 667.58	378.00	\$ 1,035.58	\$ 0.37
4 exit sign w/ e light	1 Ledsign w/e light	Community Center	.015 KW	0.003 KW	80%	6,240	1	\$ 268.34	\$ 268.34	65.00	\$ 333.34	\$ 0.19
5 4t surf t12	4 ballast, 16 bulbs 28 watt	Community Center	0.16 KW	.112KW	30%	8,320	4	\$ 58.00	\$ 232.00	232.00	\$ 464.00	\$ 0.50
6 4t surf t8 32	44 bulbs 28watt	Community Center	.128 KW	.112KW	12%	22,880	11	\$ 2.00	\$ 22.00	88.00	\$ 110.00	\$ 0.80
7 2t surf t8 32	10 bulbs 28 watt	Community Center	.064 KW	.056 KW	12%	10,400	5	\$ 2.00	\$ 10.00	20.00	\$ 30.00	\$ 0.87
8 incandescent bulbs	27 led bulbs	Community Center	0.06 KW	0.004 KW	93%	56,160	27	\$ 23.78	\$ 642.06	120.00	\$ 762.06	\$ 0.16
9 2t 2' t12	4ft. 2 tube light, 2 bulbs t8 28 watt	Park bathroom	.06 KW	.056 KW	7%	4,160	2	\$ 120.00	\$ 240.00	130.00	\$ 370.00	\$ 0.35
10 2t surf t12	10 ballasts, 20 bulbs t8 28 watt	Police Department	.080 KW	.056 KW	30%	20,800	10	\$ 54.00	\$ 540.00	540.00	\$ 1,080.00	\$ 0.50
11 incandessants	16 led bulbs	Police Department	0.06 KW	0.004 KW	93%	33,280	16	\$ 23.78	\$ 380.48	100.00	\$ 480.48	\$ 0.21
12 2t surf t8/32	34 bulbs t8 28 watt	Police Department	.064 KW	.056 KW	12%	35,360	17	\$ 2.00	\$ 34.00	68.00	\$ 102.00	\$ 0.87
13 switches	20 Dual Technology switches	Police Department					20	\$ 84.90	\$ 1,698.00	700.00	\$ 2,398.00	\$ 0.29
14 4t recessed t12	9 ballasts, 36 bulbs t8 28 watt	Fire Department	.160 KW	.112 KW	30%	18,720	9	\$ 58.00	\$ 522.00	522.00	\$ 1,044.00	\$ 0.50
15 incandessants	8 led bulbs	Fire Department	0.06 KW	0.004 KW	33%	16,640	8	\$ 23.78	\$ 190.24	50.00	\$ 240.24	\$ 0.21
16 flood	6 led bulbs	Fire Department	.1 KW	.020 KW	80%	12,480	6	\$ 23.78	\$ 142.68	50.00	\$ 192.68	\$ 0.26
17 2t strip 8't12	4t strip lights, 4 bulbs 28 watt	Fire Department	.120 KW	.112 KW	7%	14,560	7	\$ 115.09	\$ 805.63	350.00	\$ 1,155.63	\$ 0.30
18 2t strip 4't12	6 ballasts, 12 bulbs 28 watt	Fire Department	.08 KW	.056 KW	30%	9,888	6	\$ 40.00	\$ 240.00	300.00	\$ 540.00	\$ 0.56
19 2t surf t8/32	38 bulbs 28 watt t8 28 watt	Corp Yard	.064 KW	.056 KW	12%	39,520	19	\$ 2.00	\$ 38.00	76.00	\$ 114.00	\$ 0.87
20 8' 2 tube	4t strip light, 4 bulbs 28 watt	Corp Yard	.120 KW	.112 KW	7%	6,240	3	\$ 115.09	\$ 345.27	150.00	\$ 495.27	\$ 0.30
21 2t surf t8/32	20 bulbs 28 watt	Corp Yard	.084 KW	.056 KW	12%	20,800	10	\$ 2.00	\$ 20.00	40.00	\$ 60.00	\$ 0.87
22 exit sign	1 led exit sign	Corp Yard	.015 KW	0.003 KW	80%	6,240	1	\$ 93.94	\$ 93.94	54.00	\$ 147.94	\$ 0.37
23 switches	15 Dual Technology switches	Corp Yard					15	\$ 84.90	\$ 1,273.50	525.00	\$ 1,798.50	\$ 0.29
Parking Lot Lights	Led Light Heads	Various	.2 KW	.020 KW	90%	20,800	8.00	\$ 1,000.00	\$ 8,000.00	780.00	\$ 8,780.00	\$ 0.09
							249.00		\$ 17,547.42	\$ 5,981.00	#####	\$ 0.35

* For each direct purchase where non-equipment costs exceeds 50% of total project costs, please attach written justification for the non-equipment costs.

EECBG COST SAVINGS

	Existing Equipment	Proposed Equipment	Facility Where Equipment Installed	Number of Units	Annual Current Capacity KWh	Annual Projected Capacity KWh	Annual Current Elec Expense	Annual Projected Elec Expense	Total Annual Saving
1	Switches	13 Duel Technology switches	Community Center	13	614.4	307.2	\$122.88	\$61.44	\$61.44
2	4t recessed t8/32	94 bulbs 28watt	Community Center	24	983.04	860.16	\$196.61	\$172.03	\$24.58
3	exit signs	7 Ledexit signs	Community Center	7	655.2	131.04	\$131.04	\$26.21	\$104.83
4	exit sign w/ e light	1 Ledsign w/e light	Community Center	1	93.6	18.72	\$18.72	\$3.74	\$14.98
5	4t surf t12	4 ballast, 16 bulbs 28 watt	Community Center	4	1228.8	860.16	\$245.76	\$172.03	\$73.73
6	4t surf t8 32	44 bulbs 28watt	Community Center	11	983.04	860.16	\$196.61	\$172.03	\$24.58
7	2t surf t8 32	10 bulbs 28 watt	Community Center	5	491.52	430.08	\$98.30	\$86.02	\$12.29
8	incadessant bulbs	27 led bulbs	Community Center	27	460.8	30.72	\$92.16	\$6.14	\$86.02
9	2t 2' t12	4ft. 2 tube light, 2 bulbs t8 28 watt	Park bathroom	2	249.6	232.96	\$49.92	\$46.59	\$3.33
10	2t surf t12	10 ballasts, 20 bulbs t8 28 watt	Police Department	10	1664	1164.8	\$332.80	\$232.96	\$99.84
11	incadessants	16 led bulbs	Police Department	16	1996.8	133.12	\$399.36	\$26.62	\$372.74
12	2t surf t8/32	34 bulbs t8 28 watt	Police Department	17	2263.04	1980.16	\$452.61	\$396.03	\$56.58
13	switches	20 Duel Technology switches	Police Department	20	998.4	499.2	\$199.68	\$99.84	\$99.84
14	4t recessed t12	9 ballasts, 36 bulbs t8 28 watt	Fire Department	9	2995.2	2096.64	\$599.04	\$419.33	\$179.71
15	incadessants	8 led bulbs	Fire Department	8	998.4	66.56	\$199.68	\$13.31	\$186.37
16	flood	6 led bulbs	Fire Department	6	1248	249.6	\$249.60	\$49.92	\$199.68
17	2t strip 8't12	4t strip lights, 4 bulbs 28 watt	Fire Department	7	1747.2	1630.72	\$349.44	\$326.14	\$23.30
18	2t strip 4't12	6 ballasts, 12 bulbs 28 watt	Fire Department	6	791.04	553.728	\$158.21	\$110.75	\$47.46
19	2t surf t8/32	38 bulbs 28 watt t8 28 watt	Corp Yard	19	2529.28	2213.12	\$505.86	\$442.62	\$63.23
20	8' 2 tube	4t strip light, 4 bulbs 28 watt	Corp Yard	3	748.8	698.88	\$149.76	\$139.78	\$9.98
21	2t surf t8/32	20 bulbs 28 watt	Corp Yard	10	1331.2	1164.8	\$266.24	\$232.96	\$33.28
22	exit sign	1 led exit sign	Corp Yard	1	93.6	18.72	\$18.72	\$3.74	\$14.98
23	switches	15 Duel Technology switches	Corp Yard	15	998.4	499.2	\$199.68	\$99.84	\$99.84
	Parking Lot Lights	Led Light Heads	Various	8	3328	332.8	\$665.60	\$66.56	\$599.04
				249.00				TOTAL	\$2,430.18